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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,381	02/14/2006	Walter Niederstaetter	03071K	1036
38263 7590 0427/2010 PROPAT, L.L.C. 425-C SOUTH SHARON AMITY ROAD			EXAMINER	
			WOOD, ELLEN S	
CHARLOTTE, NC 28211-2841			ART UNIT	PAPER NUMBER
			1782	
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			04/27/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/568,381 NIEDERSTAFTTER ET AL Office Action Summary Examiner Art Unit ELLEN S. WOOD 1782 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04/01/2010. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.3.4.6-10.12-19 and 21-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1, 3, 4, 6-10, 12-19, and 21-25 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/06)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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### DETAILED ACTION

### Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/01/2010 has been entered.
- 2. Applicant's arguments, filed 04/01/2010, with respect to claims 1, 3, 4, 6-10, 12-19, and 21-25 have been fully considered and are persuasive. The rejection of claims 1, 3, 4, 6-10, 12-19, and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Merritt et al. (US 7,001,635, hereinafter "Merritt") in view of Nobuyuki et al. (JP 2002-306059, hereinafter "Nobuyuki") in view of Ahlgren et al. (US 6,203,750, hereinafter "Ahlgren") in view of Cruz (US 2004/0062834) has been withdrawn.

## Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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4. Claim 24 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 24 has been added as a new claim wherein the applicant has stated that the "water-soluble polymer is other than polyvinylpyroolidone". The applicant states on page 6 of the specification that the water-soluble polymer can include polyvinylpyroolidone. Thus, the applicant claims subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the art that the applicant had possession of the claimed invention.

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claim 23 recites the limitation "polyether block amide" in line 3. There is insufficient antecedent basis for this limitation in the claim. The applicant has canceled polyether block amide in claim 1, thus the applicant does not have antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claim 1, 3, 4, 6-10, 12-19, and 21-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Merritt et al. (US 7,001,635, hereinafter "Merritt") in view of Delius et al. (US 5,773,059, hereinafter "Delius") in view of Ahlgren et al. (US 6,203,750, hereinafter "Ahlgren") in view of Stenger et al. (US 5,399,427, hereinafter "Stenger").

Merritt discloses a casing that is made from plastics or polyamides (col. 6 lines 55-57). The shirred stick casings are self-sustaining and adapted for stuffing with products, particularly emulsions that form sausages (col. 6 lines 11-13). The casings are made from plastics or polyamides (col. 6 lines 55-57), which are considered soft polymers. A typical additive to a casing is a plasticizer (col. 6 lines 62-65). The casings are stuffed to form individual links (col. 11 lines 7-9), thus it would be known to one of ordinary skill in the art that the casings were closed at one end. The tubular casings are typically gathered into compressed shirred ("pleated") sticks using well-known processes and equipment (cols. 6-7 lines 65-67 and line 1). During the shirring operation it is common to coat the casing, particularly the inner surface, with a solution that contains ingredients such as anti-pleat lock agents to form shirred stick casings with self-sustaining properties (col. 7 lines 1-13). The tubular casing may be sprayed with a surfactant, water, and/or humectant (col. 7 lines 1-5). Mineral oil may also be used to coat the casing during the shirring process (col. 7 lines 1-7). The examiner considers this a temporary setting of the shirring geometry and the resultant breakdown in tension of the shirred pleats. The method of forming a shirred sausage casing and

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filling the casing with meat on a high speed fully automatic (FAM) mechanical stuffer (col. 11 lines 7-9). The individual casings stuffed with meat were produced (col. 11 line 9). In general the polyamide used for the casing is nylon (col. 1 lines 62-63), which is an aliphatic polyamide. The plasticizer can include propylene glycol (col. 8 lines 6-9).

Merritt is silent with the specific properties that are associated with the selfsustaining shirred stick casing such as the bending percentage and the extension of the shirred food casing after shirring.

Merritt discloses that when shirred casing stick are used with automatic food stuffing equipment it is extremely important that shirred casing stick has the durability to be a self-sustaining article (col. 8 lines 58-61). Thus, it would be obvi3ous to one of ordinary skill in the art at the time of the invention that if the shirred casing stick is self-sustaining the amount of bending under the effect of the casings own weight would be minimal to none.

Merritt discloses that the formation of the shirred casing sticks will have sufficient coherency to hold together from immediately after shirring to storage (cols. 8-9 lines 67 and 1-7). Thus, it would be obvious to one of ordinary sill in the art at the time of the invention that if the shirred casing stick maintains its shape after shirring the amount of extension in the longitudinal direction would be minimal to none when stored.

Merritt is silent with the composition of the casing containing water-soluble polymers.

Delius discloses a casing polyamide-based sausage casing of a polymer blend comprising a polyamide and a polyolefin modified by carboxyl groups (abstract). The

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polyolefin modified by carboxyl groups is a copolymer containing units of ethylene and (meth)acrylic acid (col. 4 lines 22-27). Thus, an ethylene/(meth)acrylic acid ester.

It would be obvious to one of ordinary skill in the art to substitute the casing composition of Delius with the polymeric casing composition of Merritt, because the composition of Delius acts to assist in decreasing the permeability of the casing to oxygen and water vapor (col. 4 lines 33-36) and are suitable for not only mechanical but also for manual filling (col. 2 lines 51-55).

The combination of Merritt and Delius is silent with regards to the range of the ration in which the food casing is compressed.

Ahlgren discloses a polyamide containing casing which are shirred for use as cook-in casings for the packaging of processed meat products, such as ham, turkey, bologna, etc (col. 1 lines 11-18). The film from which the casing is made contains a layer comprising at least two polyamides (col. 2 lines 9-11). The filing of various types of casing with viscous meat emulsion can be carried out by various automatic and semi-automatic processes (col. 14 lines 50-52). Apparatus and processes are well known in the food casing art for producing shirred, tubular casings (col. 14 lines 58-59). Such apparatus may be employed in the preparation of pleated and compressed tubular casing wherein the compression ratios are in the order of at least about 40:1 and up to about 100:1 or even greater (col. 14 lines 60-63). Using suitable food stuffing machinery, casing lengths can be stuffed with particulate or comminuted viscous material such as meat emulsion or the like, and thereafter formed into unit size lengths, using metal clips and/or heat seals (col. 14 lines 63-67). Merritt discloses that the

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tubular casings are typically gathered into compressed self-sustaining shirred sticks (col. 6 lines 65-67). Thus, it would be obvious to one of ordinary skill at the time of the invention that the compression ratio of Ahlgren would be used to form the shirred sticks of the combination of Merritt and Nobuyuki, because the apparatus and processes that use the compression ratios of Ahlgren are well known in the food casing art to form shirred, tubular casings (col. 14 lines 58-59).

The combination of Merritt, Delius and Ahlgren is silent with the water vapor permeability and the bending effects of the shirred food casing.

Stenger discloses a polyamide 6 singly layer sausage casings composed of nylon 6 having a thickness of 39-41 µm and a water vapor permeability of 20 g/m<sup>2</sup>/day (table 1, comparative example 1). Stenger also recites that sausage casings with too high of a water vapor permeability leads to undesirable weight losses and drying of the sausage (col. 1 lines 60-64).

It would be obvious to one of ordinary skill in the art to combine the stability of the casing of Ahlgren with the water vapor permeability properties of Stenger with the formation of the shirred casings of the combination of Merritt and Delius , because the combination of Stenger and Ahlgren would form a shirred casing that is a polyamide mixture that would improve the strength of the casing during stuffing of the sausage emulsion while maintaining the water vapor permeability properties and can be formed with the proper dimensions as seen in the combination of Merritt and Delius to form a casing that does not need the use of an separate support on an automatic stuffing machine and has smokability properties.

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### Response to Arguments

 Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

10. The applicant argues that US 635 is generally directed to cellulosic casings containing liquid smoke that provide an enhanced smoky color and flavor to foods via an alkaline treatment.

In response, US 635 discloses a casing that is made from plastics or polyamides (col. 6 lines 55-57). The shirred stick casings are self-sustaining and adapted for stuffing with products, particularly emulsions that form sausages (col. 6 lines 11-13). The casings are made from plastics or polyamides (col. 6 lines 55-57), which are considered soft polymers.

11. The applicant argues that US 750 is directed to multilayer heat shrinkable casings suitable for cook-in use, wherein US 750 merely gnerically notes various examples wherein the casings were "shirred".

In response, Ahlgren discloses that the filing of various types of casing with viscous meat emulsion can be carried out by various automatic and semi-automatic processes (col. 14 lines 50-52). Apparatus and processes are well known in the food casing art for producing shirred, tubular casings (col. 14 lines 58-59). Such apparatus may be employed in the preparation of pleated and compressed tubular casing wherein the compression ratios are in the order of at least about 40:1 and up to about 100:1 or even greater (col. 14 lines 60-63). Using suitable food stuffing machinery, casing

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lengths can be stuffed with particulate or comminuted viscous material such as meat emulsion or the like, and thereafter formed into unit size lengths, using metal clips and/or heat seals (col. 14 lines 63-67). Ahlgren is providing the generally teaching of shirring tubular casings that can be used in combination with the primary reference.

However, note that while Ahlgren do not disclose <u>all</u> the features of the present claimed invention, Ahlgren is used as teaching reference, and therefore, it is not necessary for this secondary reference to contain all the features of the presently claimed invention, *In re Nievelt*, 482 F.2d 965, 179 USPQ 224, 226 (CCPA 1973), *In re Keller* 624 F.2d 413, 208 USPQ 871, 881 (CCPA 1981). Rather this reference teaches a certain concept, namely, the compression ratios of a shirred casing in order to (motivation) and in combination with the primary reference, discloses the presently claimed invention.

12. The applicant argues that to modify US 635 so as to incorporate such an elevated compression ratio would render US 635 unfit for its intended purpose as a smoke-transport casing.

In response, it noted that "the arguments of counsel cannot take the place of evidence in the record", *In re Schulze*, 346 F.2d 600, 602, 145 USPQ 716, 718 (CCPA 1965). It is the examiner's position that the arguments provided by the applicant regarding the inability of the casings of US 635 to by compressed at a ratio of greater than 100 must be supported by a declaration or affidavit. As set forth in MPEP 716.02(g), "the reason for requiring evidence in a declaration or affidavit form is to

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obtain the assurances that any statements or representations made are correct, as provided by 35 U.S.C. 24 and 18 U.S.C. 1001".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELLEN S. WOOD whose telephone number is (571)270-

3450. The examiner can normally be reached on M-F 730-5 with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Rena Dve can be reached on (571)272-3186. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ELLEN S WOOD/ Examiner, Art Unit 1782 /Rena L. Dye/ Supervisory Patent Examiner Art Unit 1782

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